



Operations Report

Andy Hocker

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CDF Weekly Meeting



Power Outages

- Scheduled power cut at 7:00 AM Friday to put new power pole back online
- Began recovery, but an unscheduled power cut quickly followed --- switched over to Kautz Rd. substation
- Another power cut necessary to switch back to master substation
 - This last cut was always 1-2 hours away until 9 PM Friday
 - CDF stayed off all day long
- Final recovery went pretty well, but....



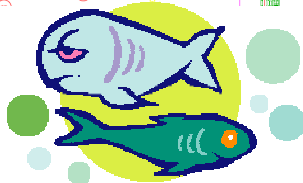
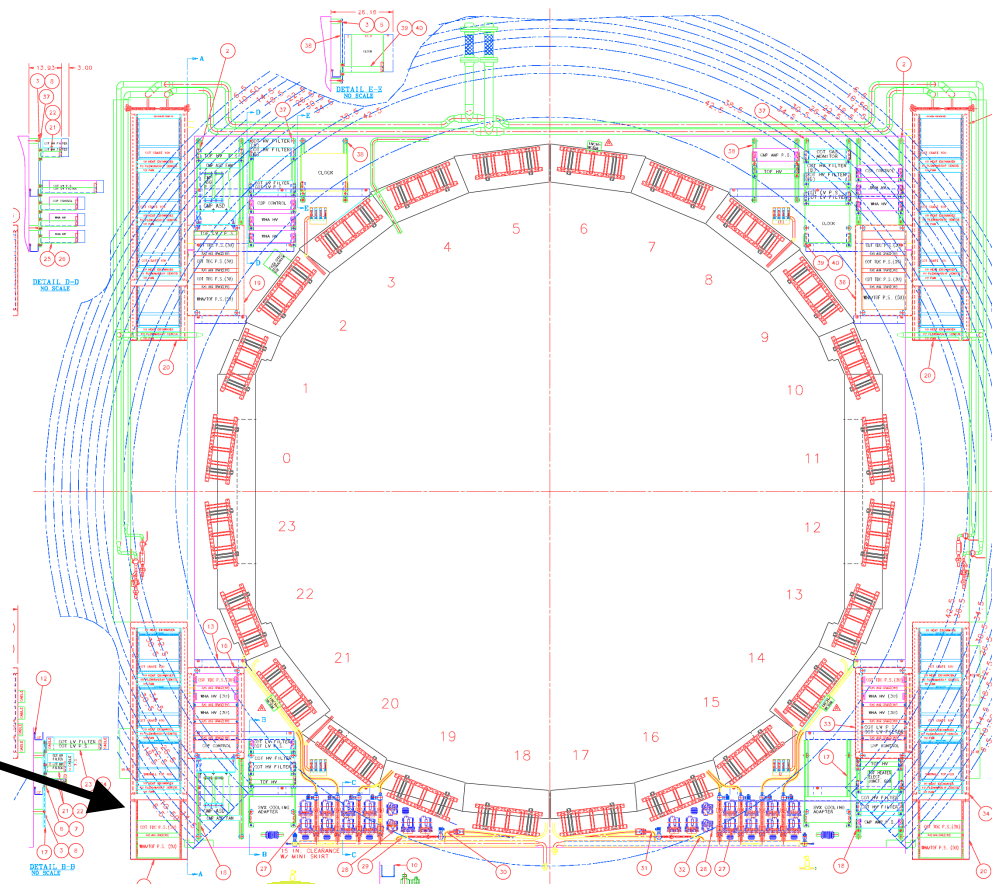
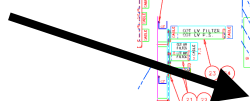
Water Leak

- Shortly after final power cut cryo tech noticed that cooling water was practically gone --- leak somewhere!
- Immediately made controlled access to look for a lake in the collision hall --- nothing found
- Made another access Saturday morning, this time pulling the muon walls
- Found CONWB rack drain bucket overflowing --- drain valve had opened; inlet valve had not shut
- Set up a fan and prayed CMP bottom not damaged
- CMP held up like a champ
- Ironical sidenote: D0 also got flooded over the weekend



Water, water everywhere

CONWB





Tuesday database crisis

- Superuser pilot error during normally-harmless online calibration DB replication
- Online calibration DB wiped out (and propagated to offline)
- Consequences for data-taking:
 - Had to patch up RC
 - Some consumers couldn't run; flew semi-blind
 - Pedestals not subtracted for cal trigger
- Took some special runs while Bill B. patched RC to download default pedestals
 - Data good from then on?
 - DB finally restored at 4 am (> 12 hours of recovery)



Store summary

Date	Inst Lum (initial)	Int Lum (live)	ϵ	Comments
Mo 6/2	21.8e30	476.1	76.3%	high losses, power cut shakedown
Tu 6/3	32.6e30	833.1	82.8%	no DB, special runs
We 6/4	30.0e30	116.5	60.3%	high losses, quench
Th 6/5	27.0e30	-	-	OK so far

Date	ϵ (probably bad, or special runs)	ϵ (possibly good)	ϵ (good)
Mo 6/2	59.9%	0%	16.4%
Tu 6/3	33.1%	31.6%	18.1%
We 6/4	9.9%	0%	50.4%
Th 6/5	0%	0%	all of it



Conclusions

- We're actually running pretty well
 - Especially considering power/water catastrophes
 - COT/CLC (access patients) doing fine
- DB problem was unfortunate
 - DB group taking action to improve recovery time, prevent future occurrences
 - At least we got some tests done during the time where we couldn't take good data
- Accelerator struggling
 - High losses --- tiny tune shifts have dramatic effects
 - Low lumis --- power cut recovery, smaller stacks, ...
- Current plan is stack and store this week and next